



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 95,1408-JJJ)

In the Application of:

Mian et al.

Serial No.: 09/989,582

Filing Date: November 20, 2001

For: Devices and Methods for Using
Centripetal Acceleration to Drive Fluid
Movement in a Microfluidics

Examiner:

Group Art Unit: 1641

TRANSMITTAL LETTER

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

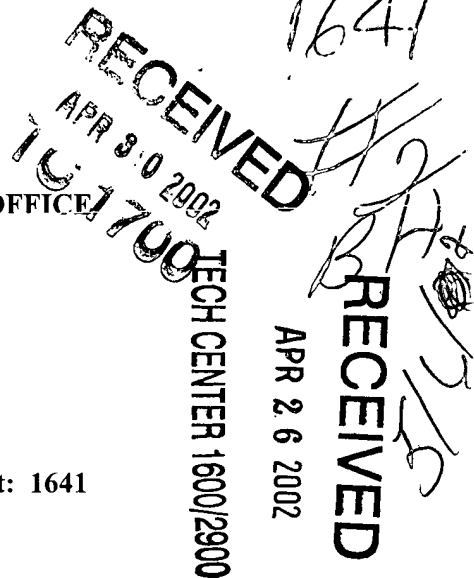
In regard to the above identified application,

1. We are transmitting herewith the attached:
 - a) Information Disclosure Statement;
 - b) PTO Form 1449 and cited references;
 - c) Return postcard
2. With respect to fees:
 - a) No fees are required
 - b) Please charge any underpayment or credit any overpayment our Deposit Account, No. 13-2490. A duplicate copy of this letter is enclosed.
3. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1, are being deposited with the United States Postal Service with sufficient postage as Express Mail in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231 on April 23, 2002.

Date: 23 April 2002

Respectfully submitted,

Kevin E. Noonan, Ph.D.
Registration No. 35,303



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 95,1408-JJJ)

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PATENT

the Application of:

Mian et al.

Serial No.: 09/989,582

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For: Devices and Methods for Using
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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97 - 1.99, the Applicant wishes to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. Section 1.56. Copies of the references cited below are enclosed. These references are also listed on the enclosed PTO Form 1449.

In the judgment of the undersigned, portions of the listed references may be material to the Examiner's consideration of the presently pending claims. This statement is not a representation that the listed references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. Section 102 or Section 103.

Applicants do not believe any fee is due with this submission. If this belief be in error and the Patent Office determines that the fee prescribed in the relevant portion of 37 C.F.R. Section 1.97 is applicable, the undersigned attorney by his signature hereby authorizes any such fee to be debited from

Deposit Account 13-2490.

If any of the references are incomplete the Examiner is cordially invited to contact the undersigned by telephone (312) 913-0001.

US Patent Documents

1. Salatiello et al., U.S. Patent No. 4,729,862, issued July 21, 1981
2. Ekins, U.S. Patent No. 4,381,291, issued April 26, 1983
3. Klose et al., U.S. Patent No. 4,515,889, issued May 7, 1985
4. Edelmann et al., U.S. Patent No. 4,676,952, issued June 30, 1987
5. Ekins, U.S. Patent No. 4,745,072, issued May 17, 1988
6. Kopf-Sill et al., U.S. Patent No. 5,160,702, issued November 3, 1992
7. Ekins, U.S. Patent No. 5,171,695, issued December 15, 1992
8. Burtis et al., U.S. Patent No. 5,173,262, issued December 22, 1992
9. Burtis et al., U.S. Patent No. 5,242,803, issued September 7, 1993
10. Burd, U.S. Patent No. 5,409,665, issued April 25, 1995
11. Buhl et al., U.S. Patent No. 5,413,732, issued May 9, 1995
12. Tabata et al., U.S. Patent No. 5,432,009, issued July 11, 1995
13. Schembri, U.S. Patent No. 5,472,603, issued December 5, 1995
14. White, U.S. Patent No. 5,006,749, issued April 9, 1991
15. Kroy et al., U.S. Patent No. 5,252,294, issued October 12, 1993
16. Wilding et al., U.S. Patent No. 5,304,487, issued April 19, 1994
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- 32 Kelton et al., U.S. Patent No. 5,496,520, issued March 5, 1996
- 33 Burd, U.S. Patent No. 5,061,381, issued October 29, 1991
- 34 Braynin et al., U.S. Patent No. 5,242,606, issued September 7, 1993
- 35 Schembri, U.S. Patent No. 5,403,415, issued April 4, 1995
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- 37 Chatterjee et al., U.S. Patent No. 5,275,016, issued January 4, 1994
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- cember 31, 1996
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- 43 International Patent No. WO 93/22058, published November 11, 1993
- 44 European Patent No. 417,305, published March 20, 1991
- 45 European Patent No. 616,218, published September 21, 1994
- 46 European Patent No. 305,210, published December 8, 1993
- 47 European Patent No. 322,657, published July 5, 1989
- 48 German Patent No. 4,410,224, published September 28, 1995
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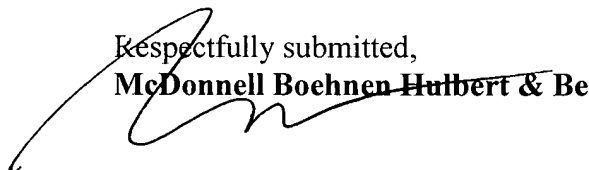
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- 85 Wilding et al., (1994), Automat. Analyt. Tech., 40: 43-47

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Date: 23 April 2002

Respectfully submitted,


McDonnell Boehnen Hulbert & Berghoff

Kevin E. Noonan, Ph.D.

Reg. No. 35,303

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application No.

09/889,582

Filing Date:

November 20, 2001

First Named Inventor

Milan et al.

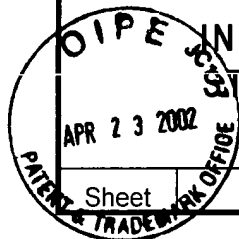
Group Art Unit

1641

Examiner Name

Attorney Docket No.

95,1408-JJJ



Sheet

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of

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear
		Number	Kind Code ² (if known)			
		4,729,862		Salatiello et al.	July 21, 1981	
		4,381,291		Ekins et al.	April 26, 1983	
		4,515,889		Klose et al.	May 7, 1985	
		4,676,952		Edelmann et al.	June 30, 1997	
		4,745,072		Ekins	May 17, 1988	
		5,160,702		Kopf-Sill	November 3, 1992	
		5,171,695		Ekins	December 15, 1992	
		5,173,262 *		Burtis et al.	December 22, 1992	
		5,242,803		Burtis et al.	September 7, 1993	
		5,409,665		Burd	April 25, 1995	
		5,413,732		Buhl	May 9, 1995	
		5,432,009		Tabata	July 11, 1995	
		5,472,603		Schembri	December 5, 1995	
		5,006,749		White	April 9, 1991	
		5,252,294		Kroy	October 12, 1993	
		5,304,487		Wilding	April 19, 1994	
		5,368,704		Madou	November 29, 1994	
		3,679,367		Negersmith	July 25, 1972	
		4,940,527		Kazlauskas et al.	July 10, 1990	
		4,515,889		Klose et al.	May 7, 1985	
		5,426,032		Phillips et al.	June 20, 1995	
		4,154,793		Guigan	May 15, 1979	

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application No.	09/989,682
Filing Date:	November 20, 2001
First Named Inventor	Mian et al.
Group Art Unit	1641
Examiner Name	
Attorney Docket No.	95,1408-JJJ

Sheet 2 of 6

U.S. PATENT DOCUMENTS

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		5,186,844		Burd	February 16, 1993	
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		5,693,233		Schembri	December 2, 1997	
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		5,242,606		Braynin et al.	September 7, 1993	
		5,403,415		Schembri	April 4, 1995	
		5,173,193		Schembri	December 22, 1992	
		5,275,016		Chatterjee et al.	January 4, 1994	
		5,624,597		Buhl et al.	April 29, 1997	
		5,599,411		Schembri	February 4, 1997	
		5,639,428		Cottingham	June 17, 1997	
		6,319,469		Mian et al.	November 20, 2001	

Examiner
Signature

Date
Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application No.

09/989,582

Filing Date:

November 28, 2001

First Named Inventor

Miah et al.

Group Art Unit

1641

Examiner Name

Attorney Docket No.

95,1408-JJJ

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
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		WO	93/22053		Trustees of the University of PENN	11/11/93		
		WO	93/22058		Trustees of the University of PENN	11/11/93		
		EP	417,305	A1	Idemitsu Petrochemical Co. Ltd.	3/20/91		
		EP	616,218	A1	Hitachi, Ltd.	9/21/94		
		EP	305,210		Biotrack, Inc.	12/8/93		
		EP	322,657		Miles Inc.	7/5/89		
		GER	4,410,224		Gleich Anmelder	9/28/95		
		EP	637,367	B1	ABAXIS, Inc.	12/10/97		
		WO	95/33986		ABAXIS, Inc.	12/14/95		

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		Anderson, "Analytical Techniques for Cell Fractions" (1968), <i>Anal. Biochem.</i> , 28: 545-562	
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		Filing Date:		November 20, 2001	
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		Group Art Unit		1641	
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Sheet	4	of	6	Attorney Docket No.	95,1408-JJJ

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		Ballantine et al., " <u>Surface Acoustic Wave</u> ", (June 1989), Anal. Chem., 61/11: pp. 704-715.	
		Bertrand et al., " <u>A One-Step Determination of Serum 5'-nucleotidase using a centrifugal Analyzer</u> ", (1982), Clinica Chimica Acta, 119: 275-284.	
		Blackburn et al., " <u>Electrochemiluminescence Detection for Development of Immunoassays and DNA Probe Assays for Clinical Diagnostics</u> ", (1991), Clin. Chem., 37/9: 1534-1539.	
		Bor Fuh et al., " <u>Isolation of Human Blood Cells, Platelets, and Plasma Proteins by Centrifugal SPLITTING Fractionation</u> ", (1995), Biotechnol. Prog., 11: 14-20.	
		Burtis et al., " <u>Optimization and Analytical Application of the Technique of Dynamic Introduction of Liquids into Centrifugal Analyzers</u> ", (1974), Clin. Chem., 20: 932-941.	
		Burtis et al., " <u>Development of a Multipurpose Optical System for Use with a Centrifugal Fast Analyzer</u> ", (1975), Clin. Chem., 21/9: 1225-1233.	
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TC 1700

Substitute for form 1449A/PTO		Complete if Known			
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		Filing Date:	November 20, 2001		
		First Named Inventor	Mian et al.		
		Group Art Unit	1641		
		Examiner Name			
Sheet	5	of	6	Attorney Docket No.	95,1408-JJJ

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		Fritsche et al., "Enzymatic Endpoint Analysis of Glucose with the Hexokinase Method and the Union Carbide Fast Centrifugal Analyzer", (1975), Clin Biochem., 8: 240-246.	
		Glass et al., "Effect of Numerical aperture on signal level in cylindrical waveguide evanescent fluorosensors" (June 1987), Appl. Optics, 26/11: 2181-2187	
		Haab et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis" Anal. Chem., 1995, 67, 3253-3260.	
		Hadjiioannou et al., "Automated Enzymic Determination of Ethanol in Blood, Serum, and Urine with a Miniature Centrifugal Analyzer", (1976), Clin. Chem. 22/6:802-805.	
		Heineman, "Biosensors Based on Polymer Networks Formed by Gamma Irradiation Crosslinking", (1993), App. Biochem. Biotech., 41: 87-97.	
		Ikada, "Surface Modification of Polymers for Medical Applications", (1994), Biomaterials, 15/10: 725-736.	
		Lamture et al., "Direct Detection of Nucleic Acid Hybridization on the Surface of a Charge Coupled Device", (1994), Nucleic Acids Res., 22/11: 2121-2125.	
		Lee et al., "Automated System for Fractionation of Blood Samples" (1978), Clin. Chem., 24/8: 1361-1365.	
		Linliu et al., "Development of a Centrifuge Ball Viscometer for Polymer Melts", (1994), Rev. Sci. Instrum., 65/12: 3823-3828.	
		Nakagawa et al., "A Micro Chemical Analyzing System Integrated on a Silicon Wafer", Proc. IEEE Workshop of Micro Electro Mechanical Systems, pp.89.	
		Poole et al., "Instrumental Thin-Layer Chromatography", (January 1994), Anal. Chem., 66/1: 27A-37A.	
		Reijenga et al., "Effect of Electroosmosis on Detection in Isotachopheresis", (1983), J. Chromatography, 260: 241-254.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC. 20231

Examiner Signature	RECEIVED APR 26 2002	RECEIVED APR 25 2002	Date Considered
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Substitute for form 1449A/PTO

Complete if Known

Application No.	09/989,582
Filing Date:	November 20, 2001
First Named Inventor	Mian et al.
Group Art Unit	1641
Examiner Name	
Attorney Docket No.	95,1408-JJJ

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6 of 6

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		Renoe et al., "A Versatile Minidisc Module for a Centrifugal Analyzer"(1974), Clain. Chem., 20/8:955-960.	
		Rosenzweig et al., "Laser-Based Particle-Counting Microimmunoassay for the Analysis of Single Human Erythrocytes" (1994), Anal. Chem., 66: 1771-1776	
		Schembri et al., "Portable Simultaneous Multiple Analyte Whole-Blood Analyzer for Point-of-Care Testing" (1992), Clin. Chem., 38/9: 1665-1670	
		Shoji & Esashi, "Micro flow cell for blood gas analysis realizing very small sample volume" (1992), Sensors and Actuators, B8: 205-208.	
		Wilding et al., "Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon" (1994), Automat. Analyt. Tech., 40: 43-47.	
		Wilding et al., Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon (1994), Clin. Chem., 40/1: 43-47.	

Examiner Signature		Date Considered	
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